

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0009	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Sutter Maintenance Yard Tisdale Bypass	M *	8.94						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.11%	2.07			
Animal Control		0.01	0.04	0.45%				
Erosion / Bank Caving	0.04		0.04	0.45%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.04	0.01		
<i>LMA Totals:</i>	0.05	0.01	0.09	1.01% *	2.11	0.01	0.00	0.00
Unit No. 01 Tisdale Bypass LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
ST0009	M *	4.51						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.22%	1.92			
Animal Control		0.01	0.04	0.89%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.01	0.01	0.05	1.11% *	1.95	0.00	0.00	0.00
Unit No. 02 Tisdale Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0009	A	4.43						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.15			
Erosion / Bank Caving	0.04		0.04	0.90%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01	0.01		
<i>Unit Totals:</i>	0.04	0.00	0.04	0.90%	0.16	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Tisdale Bypass			Left	4.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/27/2018 - 3/27/2018		10/3/2018 - 10/3/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_ST0009_01_s_2013_2				
Comment Code					
Inspector Comment					
Sutter Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_ST0009_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a stockpile of emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_ST0009_01_s_2013_5				
Comment Code					
Inspector Comment					
Sutter Yard had flood fight training October 2018.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.02	Rating **	A	Issue No.	11
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.027172 °	39.028325 °
				-121.821437 °	-121.808907 °
DWR ID	DWR_ST0009_01_f_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from the landside slope.					

Photo 1 of 1 : FA_2018_ST0009_286_11_20181008_00019.jpg



View of the removed vegetation from the landside slope.

LM Start	0.02	Rating **	A	Issue No.	10
LM End	4.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.027172 °	39.032885 °
				-121.821437 °	-121.743387 °
DWR ID	DWR_ST0009_01_f_2018_10				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The vegetation was mowed or burned along the waterside slope.					

Photo 1 of 2 : FA_2018_ST0009_286_10_20181114_00024.jpg



View of the mowed or burned vegetation along the waterside slope.

LM Start	0.02	Rating **	A	Issue No.	10 (cont)
LM End	4.50	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_ST0009_286_10_20181008_00020.jpg



View of the vegetation along the waterside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.71	Rating **	A	Issue No.	15
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.028325 °	39.028257 °
				-121.808907 °	-121.795252 °
DWR ID	DWR_ST0009_01_f_2018_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The vegetation was mowed or burned along the landside slope.					

Photo 1 of 1 : FA_2018_ST0009_286_15_20181008_00021.jpg



View of the vegetation along the landside slope.

LM Start	2.00	Rating **	A	Issue No.	16
LM End	4.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.028183 °	39.032885 °
				-121.785020 °	-121.743387 °
DWR ID	DWR_ST0009_01_f_2018_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The vegetation was burned or mowed along the landside slope.					

Photo 1 of 2 : FA_2018_ST0009_286_16_20181114_00023.jpg



View of the burned or mowed vegetation along the landside slope.

LM Start	2.00	Rating **	A	Issue No.	16 (cont)
LM End	4.50	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_ST0009_286_16_20181008_00022.jpg



View of the vegetation along the landside slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	25	
LM End	2.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.028132 °	39.028132 °	
				-121.782389 °	-121.782389 °	
DWR ID	16591					
Comment Code						
Inspector Comment						
FS_ID:51484 DS_ID:16591 EP_NO: 10099 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/11/2016 Crossing appears to be in good conditon.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 4-foot by 7-foot reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:05 AM						

LM Start	2.14	Rating **	A/W	Issue No.	25 (cont)
LM End	2.14	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51484_64226.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_51484_64225.jpg



Wooden Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	25 (cont)	
LM End	2.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.028132 °	39.028132 °	
				-121.782389 °	-121.782389 °	
DWR ID	16591					
Comment Code						
Inspector Comment						
FS_ID:51484 DS_ID:16591 EP_NO: 10099 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/11/2016 Crossing appears to be in good conditon.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 4-foot by 7-foot reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:05 AM						

Photo 3 of 3 : UCIP_FA_2018_51484_64224.jpg



Pump house on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	26
LM End	2.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.028124 °	39.028124 °
				-121.782344 °	-121.782344 °
DWR ID	16856				
Comment Code					
Inspector Comment					
FS_ID:51485 DS_ID:16856 EP_NO: 10099 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 4-foot by 7-foot concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:37 AM					

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)
LM End	2.14	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51485_64230.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_51485_64229.jpg



Wooden flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)	
LM End	2.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.028124°	39.028124°	
				-121.782344°	-121.782344°	
DWR ID	16856					
Comment Code						
Inspector Comment						
FS_ID:51485 DS_ID:16856 EP_NO: 10099 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 4-foot by 7-foot concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (two 4-foot by 7-foot tunnel [HLM 2.13] authorized under Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)]. FS Date: 4/12/2017 9:20:37 AM						

Photo 3 of 3 : UCIP_FA_2018_51485_64228.jpg



Pump house on LS toe.

LM Start	2.16	Rating **	U	Issue No.	12
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.028137°	39.028137°
				-121.782020°	-121.782020°
DWR ID	DWR_ST0009_01_f_2016_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0009_286_12_20180905_00002.jpg



View of a rodent hole along the levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	2.16	Rating **	U	Issue No.	12 (cont)
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.028137°	39.028137°
				-121.782020°	-121.782020°
DWR ID	DWR_ST0009_01_f_2016_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 2 of 2 : FA_2018_ST0009_286_12_20180905_00003.jpg



Another view of the rodent holes along the crown and landside slope.

LM Start	2.19	Rating **	M	Issue No.	3
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.028173 °	39.028012 °
				-121.781475 °	-121.745665 °
DWR ID	DWR_ST0009_01_s _ 2012_3				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0009_286_3_20180905_00001.jpg



View of the PG&E poles along the landside crown of the levee.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	3.65	Rating **	M	Issue No.	27	
LM End	3.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.027911 °	39.027911 °	
				-121.754224 °	-121.754224 °	
DWR ID	16590					
Comment Code						
Inspector Comment						
FS_ID:51486 DS_ID:16590 EP_NO: 14740 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/10/2017 Carsonite marker on WS missing. (DWR Sutter Yard- AFreitag)10/11/2016 Carsontie marker on WS shoulder is still missing.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on WS shoulder is missing.5/7/2015 Marker on WS shoulder missing.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Carsonite marker on WS shoulder missing and should be replaced. FIELD_STRUCT_DESC: 4-inch steel gas pipeline through the levee and under channel, 2.5 feet below the crown. Carsonite signs on both the landside (LS) and the waterside (WS) shoulders. Gas wells 200 feet off of the LS toe. (Permit No. 14740, 1988 - Nahama and Weagant Energy Co.) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:21:13 AM						

LM Start	3.65	Rating **	M	Issue No.	27 (cont)
LM End	3.65	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2018_51486_76941.jpg



Close up of LS marker

Photo 2 of 2 : UCIP_FA_2018_51486_64220.jpg



Carsonite sign on LS shoulder with view of gas well in background.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.35	Rating **	M	Issue No.	24
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.030637 °	39.030637 °
				-121.743023 °	-121.743023 °
DWR ID	DWR_ST0009_01_s_2017_24				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside slope and toe.					

Photo 1 of 1 : FA_2018_ST0009_286_24_20180905_00004.jpg



View of the debris along the waterside slope and toe.

LM Start	4.50	Rating **	M	Issue No.	28
LM End	4.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.032801 °	39.032801 °
				-121.743360 °	-121.743360 °
DWR ID	16855				
Comment Code					
Inspector Comment					
FS_ID:51487 DS_ID:16855 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broke off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:22:54 AM					

Photo 1 of 3 : UCIP_FA_2018_51487_64235.jpg



Carsonite sign on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.50	Rating **	M	Issue No.	28 (cont)	
LM End	4.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.032801 °	39.032801 °	
				-121.743360 °	-121.743360 °	
DWR ID	16855					
Comment Code						
Inspector Comment						
FS_ID:51487 DS_ID:16855 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broke off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:22:54 AM						

LM Start	4.50	Rating **	M	Issue No.	28 (cont)
LM End	4.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51487_64234.jpg



Carsonite sign on LS slope.

Photo 3 of 3 : UCIP_FA_2018_51487_76942.jpg



Close up of LS marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.50	Rating **	M	Issue No.	29	
LM End	4.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.032801 °	39.032801 °	
				-121.743360 °	-121.743360 °	
DWR ID	16589					
Comment Code						
Inspector Comment						
FS_ID:51488 DS_ID:16589 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:24:35 AM						

LM Start	4.50	Rating **	M	Issue No.	29 (cont)
LM End	4.50	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51488_64233.jpg



Carsonite sign on LS slope.

Photo 2 of 3 : UCIP_FA_2018_51488_64232.jpg



Carsonite sign on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.50	Rating **	M	Issue No.	29 (cont)	
LM End	4.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.032801 °		39.032801 °
				-121.743360 °		-121.743360 °
DWR ID	16589					
Comment Code						
Inspector Comment						
FS_ID:51488 DS_ID:16589 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard - aFreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 4/12/2017 9:24:35 AM						

Photo 3 of 3 : UCIP_FA_2018_51488_76943.jpg



Close up of LS marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Tisdale Bypass			Right	4.43
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/27/2018 - 3/27/2018		10/3/2018 - 10/3/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Sutter Maintenance Yard Tisdale Bypass

Page 1 of 8

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.00	Rating **	A	Issue No.	8 (cont)	
LM End	4.42	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.023172 °		39.021433 °
				-121.820780 °		-121.741170 °
DWR ID	DWR_ST0009_02_f_2018_8					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
The vegetation was removed from the landside slope.						

Photo 2 of 2 : FA_2018_ST0009_287_8_20181008_00017.jpg



View of the vegetation along the landside slope.

LM Start	0.11	Rating **	M	Issue No.	1
LM End	0.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.023760 °	39.024559 °
				-121.818875 °	-121.816344 °
DWR ID	DWR_ST0009_02_s _ 2012_1				
Comment Code					
DT : Ditch					
Inspector Comment					
Monitor the ditch for erosion.					

Photo 1 of 1 : FA_2018_ST0009_287_1_20180905_00001.jpg



View of the agricultural ditch along the landside toe.

LM Start	0.69	Rating **	M	Issue No.	9
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025602 °	39.025657 °
				-121.808527 °	-121.808027 °
DWR ID	DWR_ST0009_02_s_2017_9				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the landside toe.					

Photo 1 of 1 : FA_2018_ST0009_287_9_20180905_00005.jpg



View of the erosion along the landside toe from the County Road.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.97	Rating **	M	Issue No.	10
LM End	0.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025540 °	39.025572 °
				-121.803272 °	-121.802990 °
DWR ID	DWR_ST0009_02_s_2017_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the landside toe.					

Photo 1 of 1 : FA_2018_ST0009_287_10_20180905_00006.jpg



View of the erosion along the landside toe from the County Road.

LM Start	1.14	Rating **	U	Issue No.	291	
LM End	1.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.025503 °	39.025503 °	
				-121.800053 °	-121.800053 °	
DWR ID	16594					
Comment Code						
Inspector Comment						
FS_ID:53047 DS_ID:16594 EP_NO: 267 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/4/2018 Erosion around WS vault is progressing. Recommended FSRP evaluation of this site. Dense vegetation around the site. Crossing remains "Urgent" due to the erosion observed on WS. (O.Yakimov - DWR)4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- A.Freitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - a.freitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD_STRUCT_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both the waterside (WS) and the landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete ""U"" shaped headwall. Concrete encased steel siphon pipe under and across bypass. (Permit Nos. 267 and 290 - Sutter Basin Improvement Co. [dates unknown]). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)]. FS Date: 10/4/2018 1:10:58 PM						

Photo 1 of 3 : UCIP_FA_2018_53047_64675.jpg



Slide gate at concrete outlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.14	Rating **	U	Issue No.	291 (cont)
LM End	1.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025503°	39.025503°
				-121.800053°	-121.800053°

DWR ID	16594
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Comment Code	
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Inspector Comment	
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FS_ID:53047
DS_ID:16594
EP_NO: 267
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/4/2018 Erosion around WS vault is progressing. Recommended FSRP evaluation of this site. Dense vegetation around the site. Crossing remains "Urgent" due to the erosion observed on WS. (O.Yakimov - DWR)4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- AFreitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted.
FIELD_STRUCT_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both the waterside (WS) and the landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete ""U"" shaped headwall. Concrete encased steel siphon pipe under and across bypass. (Permit Nos. 267 and 290 - Sutter Basin Improvement Co. [dates unknown]).
[Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)].
FS Date: 10/4/2018 1:10:58 PM

LM Start	1.14	Rating **	U	Issue No.	291 (cont)
LM End	1.14	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_53047_64674.jpg



Slide gate at concrete outlet on LS toe.

Photo 3 of 3 : UCIP_FA_2018_53047_64673.jpg



Concrete box, vent, and 54-inch steel pipe in WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.14	Rating **	M	Issue No.	13
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025460 °	39.025460 °
				-121.800022 °	-121.800022 °
DWR ID	DWR_ST0009_02_f_2016_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion around the WS concrete vault.					

Photo 1 of 2 : FA_2018_ST0009_287_13_20180905_00007.jpg



View of the erosion along the concrete vault.

LM Start	1.14	Rating **	M	Issue No.	13 (cont)
LM End	1.14	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_ST0009_287_13_20180905_00008.jpg



Another view of the erosion along the concrete vault.

LM Start	1.19	Rating **	A/W	Issue No.	290
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025490 °	39.025490 °
				-121.799240 °	-121.799240 °
DWR ID	DWR_ST0009_02_s_2015_290				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Sutter Yard needs to monitor the erosion along the berm.					

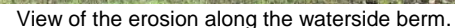
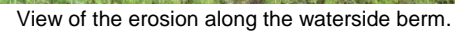
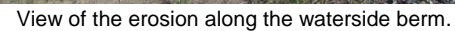
Photo 1 of 1 : FA_2018_ST0009_287_290_20180905_00010.jpg



View of the erosion along the waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Tisdale Bypass



**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.09	Rating **	A/W	Issue No.	18
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.024912 °	39.024912 °
				-121.745237 °	-121.745237 °
DWR ID	DWR_ST0009_02_f_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the water side berm.					

Photo 1 of 1 : FA_2018_ST0009_287_18_20180905_00009.jpg



View of the erosion along the waterside berm.

LM Start	4.20	Rating **	M	Issue No.	292
LM End	4.20	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.024079 °	39.024079 °
				-121.743420 °	-121.743420 °
DWR ID	23099				
Comment Code					
Inspector Comment					
FS_ID:51491 DS_ID:23099 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/17/2012 Need to identify permit for crossing. FIELD_STRUCT_DESC: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Markers visible on the landside (LS) shoulder and toe and the waterside (WS) shoulder and toe. No permit has been identified since the crossing was field discovered in 2012. FS Date: 4/12/2017 9:30:05 AM					

Photo 1 of 3 : UCIP_FA_2018_51491_64681.jpg



Marker on LS shoulder and toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/03/2018 10/03/2018	Bob Duffey

LM Start	4.20	Rating **	M	Issue No.	292 (cont)
LM End	4.20	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.024079 °	39.024079 °	
			-121.743420 °	-121.743420 °	

DWR ID	23099
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Comment Code	
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Inspector Comment	
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FS_ID:51491
DS_ID:23099
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/17/2012 Need to identify permit for crossing.
FIELD_STRUCT_DESC: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Markers visible on the landside (LS) shoulder and toe and the waterside (WS) shoulder and toe. No permit has been identified since the crossing was field discovered in 2012.
FS Date: 4/12/2017 9:30:05 AM

LM Start	4.20	Rating **	M	Issue No.	292 (cont)
LM End	4.20	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51491_64680.jpg



Marker on WS shoulder

Photo 3 of 3 : UCIP_FA_2018_51491_64679.jpg



Marker on WS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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